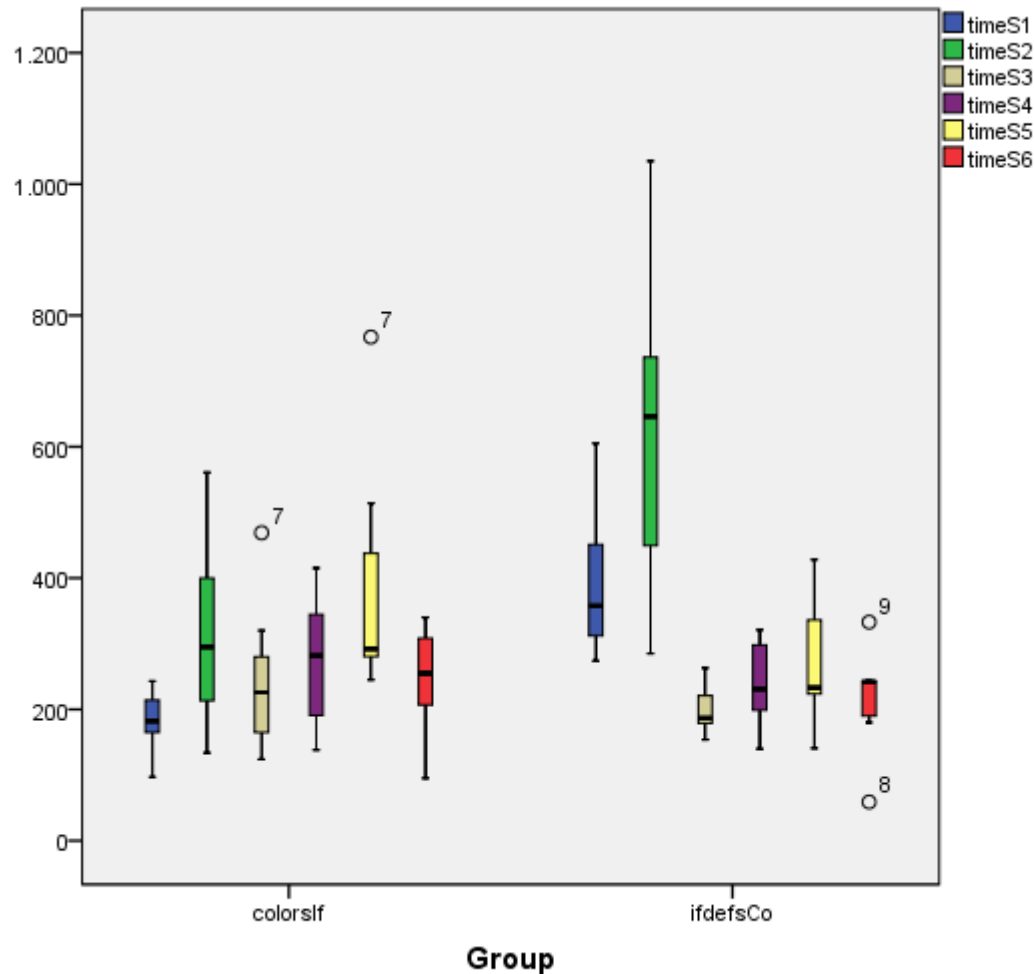


Boxplots



1. colors
2. ifdefs

1. ifdefs
2. colors

Tasks for both phases are equivalent; the changes for the 2. phase are in parenthesis.

Tasks for 1./2. Phase

S1 (S4)

In which files occurs the Feature

CONFIG_XENO_OPT_STATS (CONFIG_XENO_OPT_PRIOCPL) vor?

S2 (S5)

Do the Features CONFIG_XENO_OPT_PRIOCPL and CONFIG_XENO_OPT_SCHED_SPORADIC (CONFIG_XENO_OPT_WATCHDOG and CONFIG_PROC_FS) share code?

S3 (S6)

File: xenomai/include/nucleus/sched.h

(xenomai/ksrc/nucleus/pod.c)

Which features occur in this file?

Group *colorsIf*: worked in the first phase with colors, in the second phase without colors

Group *ifdefsCo*: worked in the first phase without colors, in the second phase with colors

Corresponding box plots have the same color, e.g. the blue box (time S1) compares the time subjects needed to complete the task S1; the left blue box denotes the time of subjects that worked with the color version in the first phase, the right blue box of subjects that worked with the ifdef verison

Gruppenstatistiken

Group		N	Mittelwert	Standardabweichung	Standardfehler des Mittelwertes
timeW1	colorslfdefs	7	238,57	116,880	44,177
	ifdefsColors	7	312,14	99,354	37,552
timeS1	colorslfdefs	7	182,86	48,841	18,460
	ifdefsColors	7	394,71	121,662	45,984
timeS2	colorslfdefs	7	316,71	147,096	55,597
	ifdefsColors	7	619,71	250,538	94,694
timeS3	colorslfdefs	7	244,14	118,463	44,775
	ifdefsColors	7	200,57	41,154	15,555
timeM1	colorslfdefs	7	799,29	312,021	117,933
	ifdefsColors	7	992,71	347,570	131,369

Comparing response time of tasks of the first phase

Only significant differences for S1 and S2 (values are smaller than 0.05); group with colors (colorslfdefs) was faster in the first phase.

Test bei unabhängigen Stichproben

		Levene-Test der Varianzgleichheit		T-Test für die Mittelwertgleichheit						
		F	Signifikanz	T	df	Sig. (2-seitig)	Mittlere Differenz	Standardfehler der Differenz	95% Konfidenzintervall der Differenz	
									Untere	Obere
timeW1	Varianzen sind gleich	,007	,936	-1,269	12	,229	-73,571	57,980	-199,900	52,757
	Varianzen sind nicht gleich			-1,269	11,697	,229	-73,571	57,980	-200,264	53,121
timeS1	Varianzen sind gleich	4,077	,066	-4,276	12	,001	-211,857	49,551	-319,819	-103,895
	Varianzen sind nicht gleich			-4,276	7,885	,003	-211,857	49,551	-326,412	-97,302
timeS2	Varianzen sind gleich	1,602	,230	-2,759	12	,017	-303,000	109,809	-542,254	-63,746
	Varianzen sind nicht gleich			-2,759	9,697	,021	-303,000	109,809	-548,710	-57,290
timeS3	Varianzen sind gleich	3,369	,091	,919	12	,376	43,571	47,400	-59,704	146,846
	Varianzen sind nicht gleich			,919	7,427	,387	43,571	47,400	-67,217	154,359
timeM1	Varianzen sind gleich	,093	,765	-1,096	12	,295	-193,429	176,539	-578,074	191,217
	Varianzen sind nicht gleich			-1,096	11,863	,295	-193,429	176,539	-578,567	191,710

Gruppenstatistiken

Group		N	Mittelwert	Standardabweichung	Standardfehler des Mittelwertes
timeW2	colorslfdefs	7	153,43	120,540	45,560
	ifdefsColors	7	229,29	111,151	42,011
timeS4	colorslfdefs	7	272,29	111,007	41,957
	ifdefsColors	7	240,86	67,900	25,664
timeS5	colorslfdefs	7	391,43	188,406	71,211
	ifdefsColors	7	274,43	108,020	40,828
timeS6	colorslfdefs	7	245,86	87,557	33,093
	ifdefsColors	7	214,29	83,671	31,625
timeM2	colorslfdefs	7	1467,29	1158,837	437,999
	ifdefsColors	7	1595,29	319,800	120,873

Comparing response time of both groups in second phase:

No significant differences (no value is smaller than 0.05)

Test bei unabhängigen Stichproben

		Levene-Test der Varianzgleichheit		T-Test für die Mittelwertgleichheit						
		F	Signifikanz	T	df	Sig. (2-seitig)	Mittlere Differenz	Standardfehler der Differenz	95% Konfidenzintervall der Differenz	
									Untere	Obere
timeW2	Varianzen sind gleich	,049	,828	-1,224	12	,244	-75,857	61,973	-210,885	59,170
	Varianzen sind nicht gleich			-1,224	11,922	,245	-75,857	61,973	-210,983	59,268
timeS4	Varianzen sind gleich	1,214	,292	,639	12	,535	31,429	49,183	-75,733	138,590
	Varianzen sind nicht gleich			,639	9,938	,537	31,429	49,183	-78,251	141,108
timeS5	Varianzen sind gleich	1,508	,243	1,425	12	,180	117,000	82,085	-61,847	295,847
	Varianzen sind nicht gleich			1,425	9,560	,186	117,000	82,085	-67,044	301,044
timeS6	Varianzen sind gleich	,061	,809	,690	12	,503	31,571	45,774	-68,162	131,305
	Varianzen sind nicht gleich			,690	11,975	,504	31,571	45,774	-68,185	131,328
timeM2	Varianzen sind gleich	17,813	,001	-,282	12	,783	-128,000	454,372	-1117,991	861,991
	Varianzen sind nicht gleich			-,282	6,909	,786	-128,000	454,372	-1205,306	949,306